

Patent Abstracts of Japan

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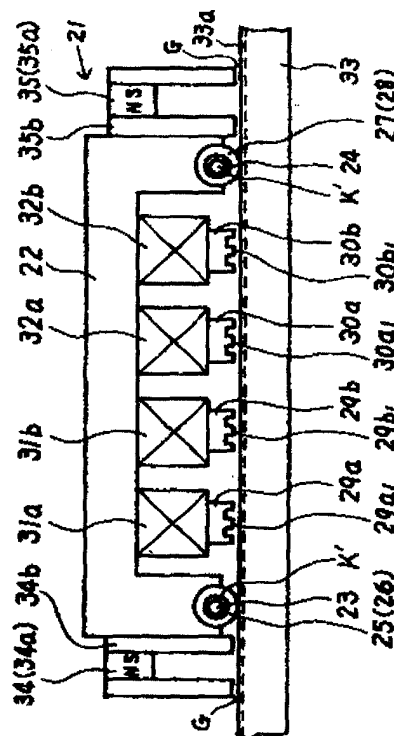
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APPLICANT : SHINKO ELECTRIC CO LTD;

INVENTOR : KATO KAZUMICHI;

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TITLE : NOISE PREVENTING MECHANISM OF
LINEAR PULSE MOTOR



ABSTRACT : PURPOSE: To reduce noise upon vibration of a supporting bearing in incrementing operation by providing a prepressure generator having a permanent magnet and a magnetic member at both ends of the primary side magnetic flux generator of a linear pulse motor.

CONSTITUTION: The primary side magnetic flux generator 21 of a linear pulse motor is formed of a core, a permanent magnet, poles 29, 30 having coils 31, 32 and toothed parts 29, 30, and prepressure generators 34, 35 formed of magnetic circuits having permanent magnets 34a, 35a, magnetic members 34b, 35b are mounted at both ends, and moved on the secondary side scale 33 having a toothed part 33a via wheels 23, 24. Accordingly, suction gas attracting force is generated in a gap G between the members 34b, 35b and the scale 33, the vibration generated at a bearing K' part can be absorbed by the vibrating force at the excitation switching time in incrementing operation, thereby reducing the noise.

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